

CLAIMS

1. A wipe comprising a water-insoluble substrate having applied thereto a cleaning composition comprising:
 - (a) a surfactant;
 - (b) a water-soluble thickening polymer, said polymer comprising at least one of the following: anionic side chains and side chains which are anionic when in the cleaning composition itself; and
 - (c) a water-transfer agent capable of withdrawing water from the surfactant.
2. A wipe according to claim 1 in which the water-soluble thickening polymer has anionic side chains.
3. A wipe according to claim 1 in which the side chains are carboxylate side chains.
4. A wipe according to claim 1 in which the water-soluble thickening polymer is a polysaccharide or polysaccharide derivative.
5. A wipe according to claim 4 in which the polysaccharide or polysaccharide derivative has a molecular weight of from about 1×10^3 to about 9×10^7 .
6. A wipe according to claim 4 in which the polysaccharide or polysaccharide derivative is selected from the group consisting of xanthan gum and derivatives thereof, cellulose, modified celluloses, guar gum and gum arabic and mixtures thereof.
7. A wipe according to claim 1 wherein the water-soluble thickening polymer is selected from the group consisting of a polyvinyl alcohol, a polyacrylic acid, a polyvinyl pyrrolidone, and mixtures thereof.
8. A wipe according to claim 7 wherein the water-soluble thickening polymer is a polyvinyl alcohol having a molecular weight of between 10,000 and 60,000 daltons, and is partially hydrolyzed.

9. A wipe according to claim 1 in which the water-transfer agent is selected from the group consisting of inorganic oxides and salts.
10. A wipe according to claim 9 in which the water-transfer agent comprises silica.
11. A wipe according to claim 10 in which the silica has a surface area measured by BET of from about 50 to about 800 m²/g.
12. A wipe according to claim 10 in which the silica has an average particle size of from about 0.05 to about 1 µm.
13. A wipe according to claim 1 in which the quantity of the cleaning composition applied to the substrate is from about 0.005 to about 2 g/cm² of water-insoluble substrate.
14. A wipe according to claim 1 in which the cleaning composition comprises from about 2.5 to about 15% water-soluble thickening polymer, by weight of the cleaning composition.
15. A wipe according to claim 1 in which the cleaning composition comprises from about 2.5 to about 15% water-transfer agent, by weight of the cleaning composition.
16. A wipe according to claim 1 in which the cleaning composition is applied to the substrate in one of the following manners: (a) as a single uniform layer which covers from about 70 to about 95% of the area of the substrate; or (b) in a stripe pattern which comprises from 1 to 6 stripes, and each stripe has a width of from about 3 to about 15 mm.
17. A wipe comprising a water-insoluble substrate having applied thereto a cleaning composition comprising:
 - (a) a surfactant; and
 - (b) at least about 3%, by weight of the cleaning composition, of xanthan gum or a derivative thereof.
18. A wipe according to claim 17 in which the cleaning composition also comprises a water-transfer agent capable of withdrawing water from the surfactant.
19. A method of cleaning a surface comprising the steps of:

providing a disposable wipe having applied thereto a cleaning composition comprising:
a surfactant;
a water-soluble thickening polymer comprising at least one of the following: anionic side chains and side chains which are anionic when in the cleaning composition itself; and
a water-transfer agent capable of withdrawing water from the surfactant;
wetting said wipe with water; and
applying the wetted wipe to a soiled surface in order to remove soils.

20. A method of cleaning a surface comprising the steps of:
providing a disposable wipe having applied thereto a cleaning composition comprising:
a surfactant,
a water-soluble thickening polymer comprising at least one of the following: anionic side chains and side chains which are anionic when in the cleaning composition itself, and
a water-transfer agent capable of withdrawing water from the surfactant;
wetting a soiled surface and applying the wipe to the wetted soiled surface in order to remove soils.

21. A wipe comprising a water-insoluble substrate having applied thereto a cleaning composition comprising:
(a) a surfactant,
(b) from about 5 to about 9%, by weight of the cleaning composition, water-soluble thickening polymer comprising at least one of the following: anionic side chains and side chains which are anionic when in the cleaning composition itself.

22. A wipe according to claim 21 in which the amount of water-soluble thickening polymer is from about 6 to about 7% by weight of the composition.

23. A wipe according to claim 21 in which the composition also comprises a water-transfer agent capable of withdrawing water from the surfactant.

24. A wipe comprising a water-insoluble substrate having applied thereto a cleaning composition comprising:
(a) a surfactant, and
(b) a water-transfer agent capable of withdrawing water from the surfactant,
wherein said substrate comprises:

(1) a first layer, wherein said first layer is a partially hydrophobic nonwoven; and
(2) a second layer, wherein said second layer is a low density nonwoven and wherein said second layer is adjacent to said first layer and has melded onto the side facing away from said first layer an abrasive coating of thermoplastic material nubs or hooks.

25. A wipe according to claim 24 in which the composition further comprises a water-soluble thickening polymer comprising at least one of the following: anionic side chains and side chains which are anionic when in the cleaning composition itself.

26. A method of caring for dishes comprising the steps of:
providing a disposable wipe comprising a water-insoluble substrate having applied thereto a cleaning composition comprising:

(a) a surfactant, and
a water-soluble thickening polymer comprising at least one of the following: anionic side chains and side chains which are anionic when in the cleaning composition itself,
providing soiled dishware and either (1) wetting said wipe with water, and applying the wetted wipe to the soiled dishware in order to remove soils or (2) wetting said soiled dishware and applying the wipe to the wetted soiled dishware in order to remove soils.

27. A method according to claim 26 in which the composition also comprises a water transfer agent capable of withdrawing water from the surfactant.

28. A disposable dishwashing wipe capable of effectively cleaning at least sixteen 24cm diameter plates of 5g soil according to the Washing Procedure.

29. A disposable dishwashing wipe capable of exhibiting a suds grade at least 3 on the scale described herein after cleaning at least twelve plates using the protocol for determination of suds grade.

30. A dishwashing sponge having impregnated therein a cleaning composition comprising:
(a) a surfactant,
(b) a water-soluble thickening polymer comprising at least one of the following: anionic side chains and side chains which are anionic when in the cleaning composition itself, and
a water-transfer agent capable of withdrawing water from the surfactant.

31. A dishwashing sponge having impregnated therein a cleaning composition comprising:
- (a) a surfactant, and
 - (b) at least 3%, by weight of the cleaning composition, xanthan gum or a derivative thereof.
32. A dishwashing sponge having impregnated therein a cleaning composition comprising
- (a) a surfactant, and
 - (b) from 5 to 9%, by weight of the cleaning composition, water-soluble thickening polymer comprising at least one of the following: anionic side chains and side chains which are anionic when in the cleaning composition itself.
33. A dishwashing sponge having impregnated therein a cleaning composition comprising:
- (a) a surfactant, and
 - (b) a water-transfer agent capable of withdrawing water from the surfactant.